

~~SECRET~~

25X1

## CHIVE TASK FORCE

31 August 1965

MEMORANDUM FOR: Director of Computer Services  
Director of Central Reference

SUBJECT : Monthly Report for August 1965

## I. ACTIVITY HIGHLIGHTS

A. Management Activities

1. [ ] D/CTF, began a series of discussions with OCR Division Chiefs on their reaction to the CHIVE Phase II Report and on problems and questions which they have raised. FDD, FIB, SR, and BR were contacted in August.

B. Requirements and Plans Group1. Page Reader Specification (Task 4)

During the month it was determined that a programming course for the 8092 computer would be given by CDC (Rabinow) beginning September 13. This computer controls the CDC 915 Page Reader presently under consideration for CHIVE. A request for approval to lease the CDC 915 has been sent to the Director of Computer Services.

[ ] - 1/2 day  
[ ] - 2 days

2. Phase III Planning (Task 17)

A chart was drawn up reflecting the manpower and task assignments of last month. Some load balancing was done and one task was absorbed by another. Additional tasks have been identified but have not been approved by CHIVE Management. Task descriptions have been prepared and disseminated for eight tasks. Approximately eight others

~~SECRET~~

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

~~SECRET~~

- 2 -

are in varying stages of production and concurrence.

25X1

[ ] - 7 days  
[ ] 3 1/2 days

### 3. Inherited Files Conversion Study (Task 9)

#### a. Intellofax Index

OCR members of this task team were brought on board 9 August and were briefed on the previous task activities of the IBM members. A preliminary draft of this study was examined and areas requiring revision and amplification were identified. Emphasis on this task has shifted from conversion to a more general analysis of file utilization under CHIVE.

25X1

25X1

25X1

[ ] 3 days  
[ ] - 2 days  
[ ] 15 days  
[ ] - 2 days

#### b. SR Detail Index

The task team has developed a task description and study of the detail index files has commenced. Members of the task team are becoming familiar with direct access storage concepts. Redundancies present in the existing files are being investigated and potential conversion problem areas are being enumerated. Compatibility of one small sub-file with the CHIVE record structures is being investigated.

25X1

[ ] - 15 1/2 days  
[ ] - 12 1/2 days  
[ ] - 2 days

25X1

25X1

### 4. Review of Customer Requirements (Task 16)

The task team members are presently engaged in studying reports of similar surveys previously conducted.

25X1

[ ] - 0 days  
[ ] 0 days  
[ ] 4 1/2 days

~~SECRET~~

- 3 -

5. Experiment Report (not a numbered task)

During the month, the CHIVE Indexing Experiment Report was edited and typed on mats in preparation for duplication by PSD.

- 12 days  
- 8 days  
- 2 days  
- 2 days

C. Systems Design Group1. Security Specification (Task 1)

A working paper, "Some CHIVE Security Design Issues," (W-3-65), has been disseminated to task force personnel. The paper is intended to identify some of the security ramifications of an all-source system considered by CHIVE designers and to provide background data for the task team. 25X1

[ ] has discussed the problems associated with the security task with [ ] and supplied background data. An initial OCR guideline paper on security issues is being drafted for approval by D/CR.

- 0 days  
0 days  
- 0 days  
- 15 days  
- 2 days

2. Current Awareness Support (Task 2)

A meeting was held on 9 August to discuss some of the approaches that might be taken during the next few months. As a preliminary step and in the absence of the team leader who was on leave during the latter part of the month, documentation is being collected on the use and value of current awareness publications, e.g., KWIC (Key Word in Context) indexes.

3 days  
2 1/2 days  
1/2 day  
- 1/2 day

SECRET

**SECRET**

- 4 -

3. Document Delivery System (Task 3)

The basic elements of the Filmsort 2000 system-five 3M cameras were delivered and installed in Room GE0433 in the latter part of the month. Supplies required for extensive testing were also received and testing will commence in early September. A task description has been prepared and submitted for approval.

[redacted] - 5 days  
[redacted] 3 days  
[redacted] 3 days  
[redacted] - 3 days

4. Location Dictionary (Task 5)

Flow charts have been prepared for the programs required to ready the gazetteer source files for merging and for the subsequent programs required to pull like locations together for manual selection of preferred names and coordinates. The tape record formats are being designed so that in addition to the above requirements, they will be suitable for follow-on modifications, e.g., indication of security classification of each record, indication of preferred names and cross references, etc. A revised task description has been prepared and submitted for approval.

Through OCS Computer Center and Applications Division, a sorting and listing of the NIS Gazetteer has been obtained. However, the first results were unsatisfactory due to a misunderstanding in sort specifications. About 10 hours of 1410 time was used.

[redacted] 10 days  
[redacted] - 1/2 day  
[redacted] - 1 1/2 days  
[redacted] - 12 days

5. ISC Modification (Task 6)

The revision of the commodity section of the ISC is almost completed. With the completion of the staffing of the task team, a detailed

**SECRET**

**SECRET**

- 5 -

examination of the revised sections has begun. The experience of the additional personnel as practicing indexers and indexing instructors will enable them to make recommendations for changes, additions, and exclusions that will make the revised subject code a more consistent tool. A revised task description has been prepared and submitted for approval.

25X1

12 days  
- 4 days  
2 days

#### 6. Header Data Input Forms (Task 7)

Samples of the initial design of the seven header forms were returned from the printer. These forms are being reviewed for adequacy of content by various OCR staff members. A number of representative documents were header indexed with these forms in order to identify possible operating problems. The forms were also reviewed with representatives of the Rabinow Company Division of CDC to see what changes should be incorporated to improve page reader performance. It is planned to submit a second draft revision of the forms to the printer in September. Typing experimentation on the forms awaits the delivery of the ASA font type ball.

C. Bourne - 4 days

#### 7. Organization Dictionary (Task 8)

The punch card data bases for the SR and FIB organization dictionaries were obtained, reproduced, and listed as of 30 July 1965. These listings were then manually compared with the BR organization listing and in those cases where FIB or SR controlled the same organizations, the FIB and/or SR control numbers were appended to the BR listing. A revised task description has been prepared and submitted for approval. The current aim of the task has been limited to defining the form and content of the dictionary.

25X1

6 days  
- 3 days  
- 6 days  
7 days

**SECRET**

**SECRET**

- 6 -

8. Information Analyst/Content Indexer Communications (Task 10)

This task is not scheduled to begin until 19 September, but some preliminary thinking and discussion has been devoted to planning the modes of communication which should be investigated. A task description has been prepared and submitted for approval.

1/2 day  
- 1/2 day

9. Vocabulary Control File Interface (Task 11)

Testing was completed on several experiments involving the use of indexer reference aids in microfilm viewer form. Preliminary discussions of task objectives and work accomplished to date were held with the other task team member. A visit was made to NPIC to discuss the methods they use to bring collateral material to the aid and support of PI analysts.

1 day  
- 2 days  
1/2 day

10. Revision of Indexing Procedures and Techniques (Task 21)

A task description has been prepared and submitted for approval. The critiques prepared by the indexers who participated in the China indexing experiment are being reviewed to obtain suggestions for improving the indexing technique.

- 1 day  
0 days

11. Purge Study (not a numbered task)

Additional data was collected from Special Register regarding the information date span of machine requests levied on the register. The Library furnished information on the age of documents requested from the Circulation Branch and discussions were held with [ ] SA, CIA Library, regarding OCR's Records Management Program.

- 2 days  
1/2 day

**SECRET**

**SECRET**

- 7 -

**D. Program Design Group****1. Input Processing (Task 12)**

A task description and a draft paper describing Input Processing concepts and approach have been prepared.

In connection with the page reader, a record format for tape output has been designed; preliminary tables have been formulated to aid the page reader programs in extracting data from the forms; basic information about the operation of the CDC 915 has been acquired; and analysis of the CDC 8092 computer instruction repertoire has begun.

In the 360 computer programming work, a flow chart has been started of the program which will interface between page reader tape records and 360 interpretation and evaluation routines; specifications have been prepared for generalized validity checking routines; and inter-program communication standards are under development.

[ ] 16 days  
[ ] - 1/2 day

**2. Unconditional File Maintenance (Task 13)**

A task description has been prepared.

[ ] 2 days

**3. Analysis of CHIVE Command Language (Task 14)**

A task description has been prepared. The proposed language is being evaluated to determine its capabilities and limitations.

[ ] 1 day  
[ ] 10 days

**4. IBM/GIS Evaluation (not a numbered task)**

Two meetings have been held with CHIVE staff and OCS personnel in attendance to analyze the Generalized Information System. This system has been designed by IBM and is expected to be available by December 1966. The GIS specifications are

**SECRET**

**SECRET**

- 8 -

being reviewed to evaluate those system functions which may be applicable to the CHIVE effort. A preliminary list of queries has been prepared to test the abilities of the GIS Command Language.

Further evaluation of GIS depends to a certain extent upon the results of this test.

- 4 days  
3 days  
8 days  
- 1 1/2 days

E. Automatic Language Processing Group (tasks in this area are not numbered)

1. Stenotype Training

The ALP stenotype speedbuilding class will start full-time training on 30 August. The progress of the class with training on a part-time basis has not been satisfactory. The service of P. O'Neill, IBM's stenotypist on the ALP project, have been obtained for teaching this class and also the theory class. who had been teaching both classes, was dismissed on 19 August at the request of the Office of Security. instructed the speedbuilding class during the week of 23 August.

2. ALP System Delivery

The ALP hardware will be shipped from Kingston on 13 September. All hardware has completed product testing. The operational steno transcription and Russian-English translation programs are now in product test. Acceptance testing will begin on 4 October and is expected to last about 10 days.

3. Machine Modifications Checked

Sample stenotype tapes produced by the re-worked modified machines were sent to Kingston for testing. Ten of the modified machines are still at Stenograph Machines, Inc., in Skokie, Illinois, for reworking.

**SECRET**



**SECRET**

- 9 -

Test paper tapes generated on the modified flexowriters were processed by IBM as a check on the machines and the ALP flexo-punching conventions.

#### 4. Operator Training

On-site training will be provided on the ALP hardware. IBM Research will send an operator to familiarize OCS personnel with the ALP file maintenance (7090) programs at a later date.

#### 5. ALP Evaluation

Considerable effort has been spent on this task to obtain an accurate description of the two candidate systems, obtain supporting cost data for the present system, and initiate the collection of necessary data for the ALP operation. Several meetings were held with representatives of the FDD staff [redacted] 25X1

[redacted] on these topics. The following items have been prepared in working paper form: 1) list of basic assumptions for both alternatives; 2) first draft cost analysis of both alternatives; 3) list of data to be recorded and reported weekly by FDD during the ALP operation.

#### F. Monthly Documentation Summary

##### 1. Substantive Memoranda

Planning for CHIVE Page Reader Acquisition, 2 August 1965, CHIVE/C-4-65, 3 pp., Unclassified.

FY 65 Accomplishments and FY 67 Budget Estimate of Development Division, 3 August 1965, 9 pp., Confidential.

Documentation Procedures, 3 August 1965, CHIVE/C-5-65, 8 pp., Unclassified.

Capsule Description of Project CHIVE, 5 August 1965, 4 pp., Confidential.

Task and Personnel Assignment Changes, 11 August 1965, CHIVE/C-6-65, 1 p., Confidential.

**SECRET**

**SECRET**

- 10 -

Task 6 - ISC Modification, 16 August 1965,  
1 p., Unclassified.

CIA Reaction to CODIB Task Team IV, 16 August  
1965, 5 pp., Confidential.

ALP System Status Meeting, 18 August 1965,  
2 pp., Unclassified.

Chinese MT Work at Itek Corporation, 19 August  
1965, 2 pp., Unclassified.

Man/Days Expended on CHIVE Tasks, 19 August  
1965, CHIVE/C-7-65, 1 p., Unclassified.

Rental of CDC 915 Page Reader; Request for  
Approval, 23 August 1965, 1 p., Attachment,  
Unclassified.

Phase III Planning - Questions Relevant to  
Implementation, 23 August 1965, 1 p., CHIVE/  
C-8-65, Unclassified.

Project CHIVE Contribution to FY 65 CODIB  
Annual Report, 25 August 1965, 2 pp., Secret.

Month 3 Progress Report, SRI, 26 August 1965,  
2 pp., Unclassified.

Samples of the Current Index Record Forms for  
the CDC Page Reader, 26 August 1965, 1 p.,  
Unclassified.

25X1

Visit of [REDACTED]  
27 August 1965, 1 p., Unclassified.

IBM Proposal for Mr. O'Neill's Assistance on  
the ALP Project, 30 August 1965, 2 pp.,  
Unclassified.

## 2. Task Descriptions

Design of the Unconditional File Maintenance  
Module, 12 August 1965, CHIVE/T-6-65, 2 pp.,  
Confidential.

**SECRET**

**SECRET**

- 11 -

Input Processing, 12 August 1965, CHIVE/T-7-65, 3 pp., Confidential.

CHIVE Command Language; Analysis, Design, and Evaluation of, 12 August 1965, CHIVE/T-10-65, 2 pp., Confidential.

Header Input Forms, 13 August 1965, CHIVE/T-12-65, 3 pp., Confidential.

Vocabulary Control File Interface, 13 August 1965, CHIVE/T-13-65, 2 pp., Confidential.

3. Reports

Supplement Key Word in Context Index, CHIVE/R-3-65, 23 August 1965, 14 pp., Secret.

4. Working Papers

Some CHIVE Security Design Issues, 23 August 1965, CHIVE/W-3-65, 26 pp., Confidential.

G. Briefings, Meetings, Miscellany

1. Early in August a series of in-depth briefings on the registers of OCR was held for approximately ten members of CTF.

2. On 25 August, OCS personnel met with Dr. Howard Bryant of IBM to discuss the capabilities of the Generalized Information System being produced by IBM.

3. On 26 August, [redacted] of CTF attended the CODIB meeting in conjunction with the Agency's position regarding the recommendations set forth by Task Team IV on Installations. 25X1

4. [redacted] attended a briefing at the Naval Reconnaissance and Technical Support Center regarding a naval proposal to convert the ISC into subject headings to facilitate its use on ship-board for querying computer stored indexes. 25X1

5. An ALP project status meeting was held on 12 August.

**SECRET**

**SECRET**

- 12 -

6. ALP personnel attended a briefing on Chinese machine-translation activities at Itek on 13 August.

7. [ ] C. Bourne visited the Rabinow plant on 25 August to obtain an evaluation of some preliminary forms.

25X1

25X1

II. PERSONNEL

A. Agency

25X1

2. On 16 August, [ ] returned to duty after a tour of two weeks with his reserve unit.

25X1

3. Agency personnel assigned full time to the CHIVE Task Force during the report period were as follows:

OCS

OCR

25X1

B. IBM

1. Miss Lillian I. Pittard left the project on 13 August. She is to be transferred to Huntsville, Alabama, effective 1 September.

**SECRET**

**SECRET**

- 13 -

2. Personnel currently assigned to the CHIVE Task Force.

Full Time

Alper, B. H.  
 Flynn, N. J.  
 Hooper, R. S.  
 Luke, J. A.  
 Moore, P. A.  
 Murray, P. J.  
 Oberthaler, S. M.

Part Time

DiCostanzo, J. A.

C. SRI

Mr. Charles Bourne completed his on-site tour with the Agency on 27 August. A proposal to continue his CHIVE work at SRI at least through June 1966 is being reviewed.

III. BUDGET AND FISCAL

A. IBM/CHIVE Contract

1. The total number of man-hours expended on CHIVE during the month of August was 1,238.

2. Expenditures to date on the current contract are approximately 34 per cent of the total budget.

B. CHIVE Task Force

25X1

1. The total number of man-days expended by all task force personnel on the 21 tasks identified in  memorandum is as follows:

- Requirements and Plans Group:
- Systems Design Group:
- Program Design Group:

days

25X1

25X1

Director  
 CHIVE Task Force

**SECRET**